# 3R - 426

# **RP WORKPLAN**

# 06/05/2009



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3R426

Environmental Work Plan for Monitoring Well Installation and Baseline Groundwater Monitoring

## San Juan 27-5 #34A Well Site San Juan Basin, Aztec, New Mexico 30-039-23739

Prepared for:

## **ConocoPhillips Company**

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# TABLE OF CONTENTS

1.0 PURPOSE AND NEED	2
2.0 SITE HISTORY	3
2.1 Site Activities	3
3.0 SCOPE OF WORK	5
3.1 Pre Field Work Preparation	5
3.2 Site Investigation	5
3.2.1 Soil Boring Advancement and Soil Sample Collection	5
3.2.2 Groundwater Monitoring Well Construction	6
3.2.3 Investigation Derived Waste	6
3.2.4 Groundwater Monitoring	7
3.3 Reporting	7
4.0 QUALITY ASSURANCE AND QUALITY CONTROL	9
5.0 REFERENCES	10

# LIST OF FIGURES

Figure 1 – Site Location Map

Figure 2 – Proposed Groundwater Monitoring Well Locations

Figure 3 – Typical Monitoring Well Completion Diagram

# **APPENDICES**

Appendix A – Historical Analytical Table

Appendix B – Soil Boring and Monitoring Well Completion Log Forms

Appendix C – Groundwater Sampling Forms

Appendix D – Site Contacts

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## 1.0 PURPOSE AND NEED

This document presents the scope of work to be performed at the San Juan 27-5 #34A petroleum hydrocarbon release site (Site) associated with ConocoPhillips Company exploration and production operations in the San Juan Basin area of New Mexico. The surface owner of the Site is the Bureau of Land Management (BLM). The Site is located in Rio Arriba County, approximately 26 miles northwest of Lindrith, NM, and 27 miles southeast of Blanco, New Mexico, in Section 30 of Township 27 North, Range 5 West.

This work is being conducted in response to the discovery of hydrocarbon impacted soil during equipment removal at the Site. Tetra Tech Inc. (Tetra Tech) will conduct this work according to site characterization methods and soil and groundwater laboratory analyses outlined in the New Mexico Oil Conservation Division (OCD) *Guidelines for Remediation of Leaks, Spills and Releases* (OCD, 1993).

This document does not describe the preparation of risk analyses or the implementation of remedial activities that could potentially occur simultaneously with monitoring efforts at the sites in the future. Specific plans covering those potential activities will be prepared separately.

# 2.0 SITE HISTORY

Chronologies of activities previously performed at the Site are presented below. The proposed scope of work for the Site is presented following the chronology section.

## 2.1 Site Activities

The following table summarizes activities that have occurred at the Site regarding the response to the 2009 release discovery. Soil and groundwater analyses discussed below are summarized in Appendix A.

DATE	ACTIVITY
January 30, 2009	During removal of an aboveground storage tank (AST) at the Site, hydrocarbon impacts beneath the AST were visually confirmed. ConocoPhillips Company contacted Envirotech Inc. of Farmington, NM (Envirotech) for spill assessment services following the discovery. Envirotech collected a total of 6 soil samples during the assessment: a 5-point composite soil sample from just beneath the AST; 4 grab soil samples from test holes dug around the AST in order to delineate the extent of hydrocarbon impact (depth of these samples ranged from 10 to 15 feet below ground surface (bgs)); and another 5-point composite soil sample collected from "a small areaexcavated to approximately 17 [feet] bgs" (Envirotech, 2009). All soil samples collected were analyzed in the field for total petroleum hydrocarbons (TPH) using Environmental Protection Agency (EPA) method 418.1 and for organic vapors using a photoionization detector (PID). The two composite soil samples soil sample collected at a depth of 17 feet bgs was submitted for TPH analysis using EPA Method 8015. The New Mexico Oil Conservation Division (OCD) recommended remediation action levels for the Site were determined to be 100 parts per million (ppm) organic vapor, 100 ppm TPH, 10 ppm benzene, and 50 ppm for BTEX. All soil sample results were below these action levels except for those collected at the surface beneath
March 3, 2009	Envirotech Inc. of Farmington, NM (Envirotech) returned to the Site to continue sampling activities. Envirotech stated that prior to their arrival, the "spill area was excavated to extents of 49' x 49' x 20' deep where groundwater was encountered" (Envirotech, 2009). Envirotech collected a composite sample from the bottom of the excavation and from each of the 4 walls. Soil samples were analyzed for TPH and organic vapors in the field, and all results were below OCD action levels for organic vapors. The concentration of TPH found in the soil sample collected from the south wall was 2,170 ppm; all other TPH results were below OCD action levels (Appendix A).

DATE	ACTIVITY
March 3, 2009	The excavation was continued along the south wall an additional 4 feet and another soil sample was collected for TPH analysis. TPH results were found to be below OCD action levels and the excavation was discontinued at this point. Final excavation dimensions were reported at 53 feet by 49 feet by 20 feet deep. Groundwater was reached at this depth and had begun to seep into the excavation. A groundwater sample was collected and was sent to an analytical laboratory for volatile organic compound (VOC) analysis using EPA Method 8260. Laboratory results for benzene were found at a concentration of 95.6 micrograms per liter (ug/L), above the 10 ug/L New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standard for this constituent (Envirotech, 2009).
March 20, 2009	A report submitted to ConocoPhillips stated that a total of 1,900 cubic yards of soil were removed from the Site and were transported to an OCD-permitted facility on Crouch Mesa in Farmington, NM. Envirotech recommended the installation of groundwater monitoring wells at the Site to determine "groundwater gradient and the extent of groundwater contamination" (Envirotech, 2009).
April 2, 2009	Tetra Tech conducted a Site visit to determine placement of proposed groundwater monitoring wells.

## 3.0 SCOPE OF WORK

The Scope of Work for Site activities is described below. Work conducted at the Site will consist of field preparation prior to the start of work (Section 3.1); a Site investigation (Section 3.2) consisting of soil boring advancement and soil sample collection (Section 3.2.1); soil boring completion to groundwater monitoring wells (Section 3.2.2); proper handling and disposal of investigation-derived waste (Section 3.2.3); and groundwater monitoring (Section 3.2.4). Reporting is discussed in Section 3.3, and quality assurance/quality control (QA/QC) is discussed in Section 4.0. References are in Section 5.0. Figure 1 is a Site location map, Figure 2 displays the Site layout and proposed locations of groundwater monitoring wells to be installed, and Figure 3 is a typical groundwater monitoring well completion diagram. Appendices follow the Figures and include:

- Appendix A Historical Analytical Table
- Appendix B Soil Boring and Monitoring Well Completion Log Forms
- Appendix C Groundwater Sampling Forms
- Appendix D Site Contacts

#### 3.1 Pre Field Work Preparation

The proposed groundwater monitoring well location map (Figure 2) will be reviewed and approved by the San Juan Business Unit and ConocoPhillips Risk Management and Remediation personnel. Once these well locations have been approved, New Mexico One-Call will be contacted to perform a utility locate within a 250 foot radius from the San Juan 27-5 #34A wellhead. Additionally, monitoring well installation permits will be acquired by Tetra Tech, and a Health and Safety Plan (HASP) will be prepared by Tetra Tech prior to the start of field work.

### 3.2 Site Investigation

#### 3.2.1 Soil Boring Advancement and Soil Sample Collection

The subject Site is scheduled to have four (4) soil borings completed into two-inch diameter groundwater monitoring wells in order to define the groundwater flow direction and to determine the extent, if any, of petroleum hydrocarbon-impacts to groundwater. Borings will be advanced until auger refusal is met or until a sufficient depth into groundwater is achieved. Depth to groundwater at the Site is expected to be found at a depth of 20 feet bgs.

Prior to the start of drilling operations, each boring location will be "day lighted" by Riley Industrial Services of Farmington, New Mexico, in order to insure that no underground utilities within the Site will be damaged by drilling equipment. "Day lighting" of each boring will be performed using a vacuum truck and water pressure to advance a hole approximately ten (10) inches in diameter and five (5) feet deep. Soil samples will be collected from just below the "day lighted" hole to just above the water table with a split-spoon sampling device during the advancement of each boring, while the lithology of the borehole will be recorded to the total depth of the boring (as practical beneath the water table). Soil samples will be collected in two-

foot intervals for field screening with a photo-ionization organic vapor detector (PID) using the heated headspace method. The interval containing the highest PID readings within each of the four (4) soil borings will be collected for laboratory analysis. If no hydrocarbon impacts are noted during field PID screening, the soil sample collected from just above the water table will be collected for laboratory analysis and will be submitted to Southern Petroleum Laboratories (SPL) of Houston, Texas, or another ConocoPhillips Company-approved laboratory. Soil analysis will consist of the following analytical parameters:

- Volatile Organic Compounds (VOCs), EPA Method 8260B
- Semivolatile Organic Compounds (SVOCs), EPA Method 8270C
- Total petroleum hydrocarbons (TPH), EPA Method 418.1
- Total metals, EPA Methods 6010/6020/7470A/7471A
- General chemistry (as described in 40 CFR 136.3), including alkalinity, bromide, chloride, fluoride, orthophosphate, sulfate, and nitrate/nitrites (various methods)

#### 3.2.2 Groundwater Monitoring Well Construction

WDC Exploration and Wells of Peralta, New Mexico (WDC) will be utilized as the drilling contractor at the Site, and drilling operations will be supervised by Tetra Tech personnel. Groundwater monitoring wells will be constructed using 2-inch diameter polyvinyl chloride (PVC) casing and at least 15 feet of PVC screen (approximately 10 feet of the screen to be installed below the water table, as requested by Glen VonGonten of OCD during a meeting with Tetra Tech in April 2008). The installed groundwater monitoring wells will include a sand filter pack to 2-feet above the top of the screen. A bentonite seal will placed on top of the filter pack, followed by cement grouting to the ground surface. Each well will be completed with a locking, steel, stick-up mounted well head set in a concrete pad (Figure 3). If deemed necessary, traffic bollards will be installed around each groundwater monitoring well by ConocoPhillips Company; Tetra Tech will not be responsible for this aspect of monitoring well installation. Following construction, the groundwater monitoring wells will be developed using a surge block and bailer or purge pump, and the wells will be incorporated into a groundwater monitoring program.

#### 3.2.3 Investigation Derived Waste

In the event that a hydrocarbon sheen or odor is observed in well development water, the development water will be containerized in on-Site wastewater disposal tanks. Otherwise, development water will be spread on-Site. Soil cuttings will be placed on polyethylene sheeting and will be covered in the event of precipitation during field activities. Once each soil boring is complete, a representative sample of soil cuttings from that boring will be field screened using a PID and will be spread on-Site if the results are less than 100 ppm. In the event that a soil cutting PID result is greater than 100 ppm, those soil cuttings will be containerized and transported by Envirotech to the Envirotech Soil Remediation Facility (or another ConocoPhillips-approved waste disposal facility) located along Angel Peak Road, approximately 16 miles south of Bloomfield, NM.







# **APPENDICES**

# APPENDIX A Historical Analytical Table

Appendix A - Historical Analytical Results

	Organic Vapor (PID)	440.0	456	450	8	8	11	QN	QN	QN	QN .	QN	QN	100
	GRO/DRO (EPA Method 8015)	NA	2,610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100
	TPH (EPA Method 418.1)	352*	352	40	32	32	32*	2,170*	12	16	24	8	20	100
Analytes (ppm)	BTEX (EPA Method 8021)	2.65	18.27	NA	NA	NA	NA	NA	AN	AN	NA	NA	NA	50
	Benzene (EPA Method 8021)	0.55	0.28	NA	NA	NA	NA	AN	NA	NA	NA	NA	NA	10
	Date	1/30/2009	1/30/2009	1/30/2009	1/30/2009	1/30/2009	1/30/2009	600Z/E/E	3/3/2009	3/3/2009	3/3/2009	3/3/2009	3/3/2009	Remediation Action Levels
Soil Samples	Sample ID	5 pt composite	Bottom @ 17	Test hole 1	Test hole 2	Test hole 3	Test hole 4	South Wall	North Wall	East Wall	West Wall	Bottom @ 20'	South Wall 2	NMOCD Recommended R

San Juan 27-5 #34A Well Site - Rio Arriba County, New Mexico

Groundwater Sample		Anał	ytes (ug/L)		
Sample ID	Date	Benzene	Toluene	Ethylbenzene	<b>Total Xylenes</b>
Bottom @ 20'	3/3/2009	95.6	233	96.7	357
NMWOCC Groundwa	tter Ouality Standards	10	750	750	620

# Notes:

ppm - parts per million ug/L - micrograms per liter NMOCD - New Mexico Oil Conservation Division

NMWQCC - New Mexico Water Quality Control Commission Constituents in **BOLD** note action level/groundwater quality standard exceedence

NS - not sampled TPH - total petroleum hydrocarbons PID - photoionization detector results for organic vapor analysis

pt - point All samples obtained by Envirotech, Inc. of Farmington, NM.

bgs - below ground surface ND - not detected BTEX - benzene, toluene, ethylbenzene, and total xylenes GRO - gasoline range organics DRO - diesel range organics \*QA/QC of the Envirotech report (Envirotech, 2009) resulted in changes to values originally reported in the table.

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# APPENDIX B Soil Boring and Monitoring Well Completion Log Forms

Litholog	y Record t:										ĺ			
gorehole:						Method								
Geologist:											IJ			
Date: Driller:										J	J		Page	õ
		$\vdash$	<u> </u>		Clar,	(Ar:	40 e	θdΛ			$\vdash$			
	Due au	\$5		uəjuog	Soils (	-noN <sup>†</sup>	odeus//	L 8 UO		436				-
Interval (ft.)	Descriptic	IEIS SOSN	Color	Moisture (	Cohesive Consisten	(Sand) Cohesive Density of	Angularity Particles	Cementati	Structure	Duy Streng	plasticity	ienoitibbA oitemiotil		Rec. (ft/ft)
				dry	v. soft	v. loose	angular	none	stratified	none	nonplastic			
Blow Ct. Sample: Y N				damp moist	soft firm (stiff)	loose m. dense	subangutar subrounded	weak moderate	Jaminated fissured	low medium	low medium			
Analytes:				wet	hard	dense	rounded	strong	slickensided	high	high			
				sat.	v. hard	v. dense	flat	CHOOSE:	blocky	v. high				
							elongated	Calcareous OR	lensed homogenous					
Time:	PID:							Silicious	interbedded					
-				dry .	v. soft	v. loose	angular	none	stratified	none	nonplastic			
Blow Ct.				damp	soft	loose	subangular	weak	laminated	low .	wo			
Sample: Y N				moist	tirm (stiff)	m. dense	subrounded	moderate	fissured	medium	medium			
Analytes.				wet sat.	naro v. hard	gense v. dense	flat	strong CHOOSE:	slickensided blocky	nign v. hiah	ußiu			
	-						elongated	Calcareous	lensed	)		• •		
Time:	PD:							OR Silicious	homogenous interbedded					•
				dry	v. soft	v. loose	angular	none	stratified	none	nonplastic			
Blow Ct.				damp	soft	loose	subangular	weak	laminated	low	low .			
Analytes:				wet	hard	dense	rounded	strong	slickensided	high	high			
				sat.	v. hard	v. dense	flat	CHOOSE:	blocky	v. high	•			
							elongated	Calcareous	lensed					
Time:	PID:							Silicious	interbedded					
				dry	v. soft	v. toose	angular	none	stratified	none	nonplastic			
Blow Ct.				damp	soft	loose	subangular	weak	laminated	low	low			
Sample: Y N				moist	firm (stiff)	m. dense	subrounded	moderate	fissured	medium	medium			
Arialytes.				wet sat.	v. hard	aense v. dense	rounded flat	strong CHOOSE:	siickensided blocky	ngn v. high	ubiu			
							elongated	Calcareous	lensed					,
Time:								OR Silicious	homogenous interbedded					-

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k:\forms\field\lithology.xls

TETRA TEC	H, INC. Wel	l Completion	Diagram			Stic	Well II ckup (feet):	approx. 3 f	t
Job Name		Date		-			Steel C	Casing er:	
Proiect Manager			········	-					
Well I D				-			Casing:		
Field Coologist				-				ft. to	ft.
Driller				-			Borehole:	inch diameter	
Equipment				_			1	ft. to	ft.
Materials							Outer Cas	ing: ft. to	ft.
Pounds			Filter Pack	=			Concrete:	approx. 4' well	pads
Pounds			Bentonite Seal					ft. to	ft.
Gallons			Grout						
Pounds			Concrete				Grout:		
Feet of native	fill/ slough							ft. to	ft.
Feet of	inch	pvc	Blank Casing				Bentonite	Seal:	
Feet of	inch		Slotted Screen					ft. to	ft.
Feet of			Outer Casing				Filter Pack		
Foot of	<u></u>		Sump/ Silt Trap					ft. to	ft.
			Sump/Silt hap						
	· · · · · · · · · · · · · · · · · · ·			-	Ê		Slotted Sc	reen:	
Notes				-			·	ft. to	ft.
				-	ं⊨		Native fill/	slough:	
	nent			- - -	Έ			ft. to	ft.
 Developn				<b>-</b> .	E		8 inch diar Borehole:	neter	
Developn Method				ŀ				ft to	
 Developn Method Date				- ;			Sump/ Silt	: Trap:	π.
Developn Method		<u> </u>		- 2			1		

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# APPENDIX C Groundwater Sampling Form

TŁ			WATER SA	MPLING F	IELD FO	DRM		
Project No.							of	
Site Location			•					
Site/Well No.	MW-	Code Repl	ed/ icate No		Date			
Weather		Time Bega	e Sampling an		Time San Complete	npling d		
			EVACUATIO	N DATA				
Description o	f Measuring Pt (MF	') <u> </u>						
Height of MP	Above/Below Lanc	Surface		MP Elevation		· · · · · · · · · · · · · · · · · · ·		
Total Sounde	d Depth of Well Be	low MP		Water-Level El	evation			
Held	Depth to W	ater Below MP		Diameter of Ca	asing	2 inch / 4 ir	nch	
Wet	Water	Column in Well		Prior to Sampli	ing			
	G	allons per Foot	<u> </u>	Sampling Pum	p Intake			
		Gallons in Well		(feet below lan	d surface)	. <u> </u>		
Purging Equi	pment	<u> </u>		<u></u>	<u> </u>			
Time	Temperature	SAMPI	LING DATA/FIEI	D PARAMETE	RS DO	DO%	ORP	Other
			· · · · · · · · · · · · · · · · · · ·					· · ·
Sampling Equ	uipment	Low Flow Pump	/ Disposable Ba	iler				
<u>Consti</u>	tuents Sampled		Container Desc	<u>ription</u>		<u>Prese</u>	ervative	
			·					
						,		
Remarks								. ·
Sampling Per	sonnel							
		<u> </u>	Well Casino	g Volumes				1
	Gal./ft.	1 ¼" = 0.077	2" = 0.16	- 3" =	• 0.37	4" = 0.65		
		$1\frac{1}{2} = 0.10$	2 ½" = 0.24	3" ½ =	0.50	6" = 1.46		

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R:\Share\Maxim Forms\Field Forms\2008 Water Sampling Field Form.xls

# APPENDIX D Site Contacts

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Cont
Site

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Name	Affiliation	Work Phone	Cell Phone
Kelly Blanchard	Tetra Tech, Inc.	505-237-8440	505-975-2563
Ana Moreno	Tetra Tech, Inc.	505-237-8440	505-440-8640
Gary Desselle	Tetra Tech, Inc.	505-237-8440	505-288-0680
Christine Matthews	Tetra Tech, Inc.	505-237-8440	
Brandon Powell	New Mexico Oil Conservation Division District 3 (Aztec)	505-334-6178, x 15	505-320-0200
Glen Von Gonten	New Mexico Oil Conservation Division District 4 (Santa Fe)	505-476-3488	
Bryan Nydoske	WDC Exploration and Wells District Manager	505-865-5222	505-991-3578
April Pohl	Envirotech Landfarm Administrator - Soil Disposal	505-632-0615	505-320-6431
David Brackney (or GW Riley or Bill McPherson)	Riley Industrial - Day lighting	505-327-4947	
Gwen Frost	ConocoPhillips San Juan Business Unit	505-326-9549	505-215-3121
Mark Stallsmith	ConocoPhillips PTRRC	505-324-6172	505-320-8029
Terry Lauck	ConocoPhillips Risk Management and Remediation Site Manager	918-661-0935	918-815-0556
Wade Hock	ConocoPhillips Field Manager		505-320-3775
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#### 3.2.4 Groundwater Monitoring

A baseline groundwater monitoring event will be conducted at the Site in June 2009. A dedicated, disposable bailer will be used to purge and sample each well. A groundwater sample will be collected once specific conductance, pH, dissolved oxygen, oxidation/reduction potential (ORP) and temperature are determined to have stabilized (within a 10% margin), or until at least three (3) well volumes have been removed. Records of each sampling event will be kept on Tetra Tech groundwater sampling forms and in a bound field notebook dedicated to the Site. Groundwater samples will be containerized in bottles supplied by SPL of Houston, Texas, or another ConocoPhillips-approved laboratory. The groundwater samples will be placed on ice in a cooler under chain of custody documentation and submitted to SPL (or other ConocoPhillips-approved laboratory) for analysis via an overnight courier.

The baseline parameter list for groundwater includes analyses of the following parameters:

- VOCs, EPA Method 8260B
- SVOCs, EPA Method 8270C
- TPH, gasoline range organics (GRO), EPA Method 8015B
- TPH, diesel range organics (DRO), EPA Method 8015B
- Total metals, EPA Methods 6010/6020/7470A/7471A
- General chemistry (as described in 40 CFR 136.3), including alkalinity, bromide, chloride, fluoride, orthophosphate, sulfate, nitrate/nitrite, pH, specific conductance, TDS, and hardness (various methods)

Compounds of concern (COCs) detected in the baseline groundwater parameter list in concentrations above the New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards will be carried forward for analyses in subsequent groundwater monitoring events. The timing and duration of the subsequent groundwater monitoring events will be dependent upon the results of the baseline analysis, and will be covered under a separate, OCD-approved work plan. In the event that all COCs are detected at concentrations below NMWQCC groundwater quality standards after the first groundwater monitoring event, ConocoPhillips will discuss Site-specific closure requirements with OCD.

# 3.3 Reporting

A groundwater monitoring report will be prepared for the Site after completion of the baseline groundwater quality analysis. The report will include a summary of the groundwater monitoring well installation, a brief description of the soil and groundwater sampling events and a discussion of analytical sampling results. In general, Tetra Tech groundwater monitoring reports will include the date(s) the events occurred, copies of field notes from each sampling event, copies of laboratory chain-of-custody documentation and laboratory analytical results, laboratory quality assurance/quality control (QA/QC) documentation, tabulated groundwater elevations, groundwater concentration/elevation maps, a generalized geologic cross section, and a summary of key findings. In the event that a quarterly, semi-annual or annual groundwater monitoring program is

initiated at the Site, groundwater elevations and groundwater analytical results from the previous sampling event will be tabulated with the results from the current sampling event.

One (1) hard copy and one (1) electronic copy of each monitoring report will be submitted to OCD.

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# 4.0 QUALITY ASSURANCE AND QUALITY CONTROL

A quality assurance evaluation will be conducted by the analytical laboratory on collected samples to check for accuracy, precision and reliability of each reported analyte concentration. Sample spiked-matrix batch samples will be analyzed to determine the accuracy of laboratory results. Quality assurance documentation will be provided on the laboratory report. In addition, at least one duplicate groundwater sample will be obtained during sampling activities and will be labeled with a false name and false time in order to remove any laboratory bias toward the sample. Results of the duplicate sample analysis will be reported with the groundwater results table.

At least one field audit of health and safety procedures and of investigation and sampling protocol will be conducted by the project manager during the period covered by this work plan. Variations from standard operating procedures will be documented and corrected, if necessary.

## 5.0 REFERENCES

- Envirotech Incorporated (2009). Burlington Resources Spill Closure Report Located at San Juan 27-5 #34A, Section 30, Township 27N, Range 5W, Rio Arriba County, New Mexico. Prepared for ConocoPhillips. Report Dated March 20, 2009. 3 pp (not including Figures, Tables, and Appendices).
- New Mexico Oil Conservation Division (1993). *Guidelines for Remediation of Leaks, Spills and Releases.* August 13, 1993. 16 pp. (not including Appendices).

# **FIGURES**

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